

**We Claim:**

1. A method for preparing an immunogenic formulation comprising oil bodies and an antigen, said method comprising:
  - 5 (a) producing an antigen in a cell;
  - (b) associating said antigen with oil bodies through an oil body targeting protein capable of associating with said antigen and said oil bodies;
  - (c) obtaining the oil bodies associated with the antigen;
  - 10 (d) washing the oil bodies to obtain washed oil body preparation comprising the antigen; and
  - (e) formulating the washed oil bodies associated with the antigen into an immunogenic formulation.
- 15 2. A method according to claim 1 wherein said oil body targeting protein is an oil body protein.
3. A method according to claim 1 wherein said oil body protein is an oleosin.
- 20 4. A method for preparing an immunogenic formulation according to claim 1 wherein the antigen is produced in a cell and associated with oil bodies through an oil body targeting protein capable of associating with said antigen and said oil bodies, according to a method comprising:
  - 25 (a) introducing into a cell a chimeric nucleic acid sequence comprising:
    - (1) a first nucleic acid sequence capable of regulating transcription in said cell operatively linked to;
    - (2) a second nucleic acid sequence encoding a recombinant fusion polypeptide comprising (i) a first nucleic acid sequence encoding a sufficient portion of an oil body protein to provide targeting to an oil body linked in reading frame to (ii) a second nucleic acid sequence encoding an antigen operatively linked to;
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- (3) a third nucleic acid sequence capable of terminating transcription in said cell; and
- (b) growing said cell under conditions to permit expression of said antigen in a progeny cell comprising oil bodies.

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- 5. A method according to claim 4 wherein said oil body protein is an oleosin
- 6. A method according to claim 4 wherein said chimeric nucleic acid
- 10 sequence is introduced into a plant cell.
- 7. A method according to claim 1 wherein said plant cell is a safflower cell.